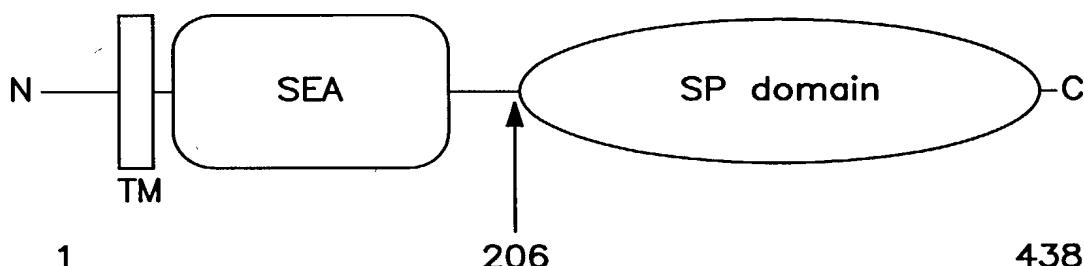


Title. NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON
 Applicant. Edwin Madison et al.
 Filed. March 13, 2002 Appl. No.: 10/099,700
 Examiner. Unassigned Art Unit: Unassigned
 Our Docket No.: 24745-1613

Domain organization and amino acid sequence of MTSP7



10	20	30	40	50	60
MMYTPVEFSEAEFSRAEYQRKQQFWDSVRLALFTLAIVAIIGIAIGIVTHFVVVEDDKSFY					
70	80	90	100	110	120
YLASFKVVTNIKYKENYGIRSSREFIERSHQIERMMSRIFRHSSVGGRFIKSHVIKLSPE					
130	140	150	160	170	180
QGVVDILIVLIFRYPSTDSEQIHKKIEKALYQSLKTQQLSLTINKPSFRRLTPIDSKKMRN					
190	200	210	220	230	240
LLNSRCGIRMTSSNMPLPASSSTQRIVQGRETAMEGEWPWQASLQLIGSGHQCGASLISN					
250	260	270	280	290	300
TWLLTAAHCFWKKNKDPTQWIATFGATITPPAVKRNRKIILHENYHRETNENDIALVQLS					
310	320	330	340	350	360
TGVEFSNIVQRVCLPDSSIKLPPKTSVFTGFGSIVDDGPIQNTLRQARVETISTDVCNR					
370	380	390	400	410	420
KDVYDGLITPGMLCAGFMEGKIDACKGDSGGPLVYDNHDIWYIVGIVSWGQSCALPKKPG					
430					
VYTRVTKYRDWIASKTGM*					

↓ = protease cleavage site

FIG. 1

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10 20 30 40 50 60
AGATCAGATGGCGACTGAATAGAAGCTGCCAGTCCTGGGTTCATGATGTACACACCTG
TCTAGTCTACCGCTGACTTATCTCGACGGGTCAAGGACCCAAGTACTACATGTGGAC

70 80 90 100 110 120
TTGAATTTCAGAACGCTGAATTCTCACGAGCTGAATATCAAAGAAAGCAGCAATTGGG
AACTTAAAAGTCTCGACTTAAGAGTGCTGACTTATAGTTCTTCGTCGTTAAACCC

130 140 150 160 170 180
ACTCACTACGGCTAGCTTTACATTAGCAATTGTAGCAATCATAGGAATTGCAATTG
TAGAGTCATGCCATCGAGAAAAGTGTAAATCGTTAACATCGTAGTATCCTAACGTTAAC

190 200 210 220 230 240
GTATTGTTACTCATTTGTTGAGGATGATAAGTCTTCTATTACCTTGCCTTTTA
CATAAACAATGAGTAAAACAACAACCTCTACTATTCAAGAAAGATAATGGAACGGAGAAAAT

250 260 270 280 290 300
AAAGTCACAAATATCAAATATAAAGAAAATTATGGCATAAGATCTCAAGAGAGTTATAG
TTCAGTGTATAGTTATATTCTTTAACCGTATTCTAGAAGTTCTCAAATATC

310 320 330 340 350 360
AAAGGAGTCATCAGATTGAAAGAAATGATGTCAGGATATTCGACATTCTCTGTAGGCG
TTTCCTCAGTAGCTAACCTTCTACTACAGATCCTATAAAGCTGTAAGAACATCCGC

370 380 390 400 410 420
GTCGATTATCAAATCTCATGTTATCAAATTAAAGTCAGATGAACAAAGGTGTGGATATTC
CAGCTAAATACTTTAGACTACAATAGTTAACAGGTACTTGTCCACACCTATAAG

430 440 450 460 470 480
TTATAGTGCTCATATTCGATAACCCATCTACTGATAGTGCTGAACAAATCAAGAAAAAAA
AATATCACGAGTATAAAGCTATGGTAGATGACTATCACGACTTGTAGTTAGTTCTTTTT

490 500 510 520 530 540
TTGAAAAGGCTTATATCAAACATTGAAAGACCAACAAATTGTCTTGACCATAAACAAAC
AACTTTCCGAAATATAGTTCAAACCTCTGGTTGTTAACAGAAACTGGTATTGTTG

550 560 570 580 590 600
CATCATTAGACTCACACCTATTGACAGCAAAAGATGAGGAATCTCTCAACAGTCGCT
GTAGTAAATCTGAGTGTGGATAACTGTCGTTTCTACTCCTTAGAAGAGTTGTCAGCGA

610 620 630 640 650 660
GTGGAATAAGGATGACATCTCCTAACATGCCATTACCAAGCATCCTCTACTCAAAGAA
CACCTTATCCTACTGTAGAAGTTGTACGGTAATGGCGTAGGAGAAGATGAGTTCTT

670 680 690 700 710 720
TTGTCCAAGGAAGGGAAACAGCTATGGAAGGGATGGCCATGGCAGGCCAGCCTCCAGC
AACAGGTTCTCCCTTGTGATACCTCCCCCTACGGTAGCGTCCGGTCGGAGGTG

730 740 750 760 770 780
TCATAGGGTCAGGCCATCAGTGTGGAGCCAGCCTCATCAGTAACACATGGCTGCTCACAG
AGTATCCCAGTCCGGTAGTCACACCTCGGTGGAGTAGTCATTGTGACCGACGAGTGTC

790 800 810 820 830 840
CAGCTCACTGCTTTGGAAAATAAAGACCCAACTCAATGGATTGCTACTTTGGTGCAA
GTCGAGTGACGAAAACCTTTTATTCTGGGGTAGTTACCTAACGATGAAAACACGTT

850 860 870 880 890 900
CTATAACACCACCCGCAGTGAAACGAAATGTGAGGAAAATTATTCTCATGAGAATTACC
GATATTGTGGTGGCGTCACTTGCTTTACACTCCTTTAACGAGTACTCTTAATAGG

910 920 930 940 950 960
ATAGAGAAAACAATGAAAATGACATTGCTTGGTTAGCTAACGAAACCAAGTCGAGAGATGACCTCAACTCAAAA

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970 980 990 1000 1010 1020
 CAAATATAGTCCAGAGAGTTGCCCTCCCAGACTCATCTATAAAGTTGCCACCTAAAACAA
 GTTTATATCAGGTCTCTCAAACGGAGGGCTGAGTAGATATTCACCGTGATTTGTT
 1030 1040 1050 1060 1070 1080
 CTGTGTTCGTCACAGGATTGGATCCATTGAGATGATGGACCTATACAAAATACACTTC
 CACACAAGCAGTGTCTAACCTAGGTAACATCTACTACCTGGATATGTTATGTGAAG
 1090 1100 1110 1120 1130 1140
 GGCAAGCCAGACTGAAACCATAAGCACTGATGTGTAAACAGAAAGGATGTGATGATG
 CCGTCCGGTCTCACCTTGGTATTCGTGACTACACACATTGCTTCCACACATACACTAC
 1150 1160 1170 1180 1190 1200
 GCCTGATAACTCCAGGAATGTTATGTGCTGGATTGATGGACCTATGGAAGGAAAATAGATGCATGTA
 CGGACTATTGAGGTCTTACAATACACGACCTAACAGTACCTCCCTTTATCTACGTACAT
 1210 1220 1230 1240 1250 1260
 AGGGAGATTCTGGTGGACCTGGTTTATGATAATCATGACATCTGGTACATTGTTAGGTA
 TCCCTCTAAGACCACTGGAGACCAAATACTATTAGTACTGTAGACCATGTAACATCCAT
 1270 1280 1290 1300 1310 1320
 TAGTAAGTGGGACAATCATGTGCACTTCCCAAAAAACCTGGAGTCTACACCAGAGTAA
 ATCATTCAACCCCTGTTAGTACACGTGAAGGGTTTTGGACCTCAGATGTGGTCTCATT
 1330 1340 1350 1360 1370 1380
 CTAAGTATCGAGATTGGATTGCCCTAAAGACTGGTATGTAGTGTGGATTGTCATGAGTT
 GATTGATAGCTCTAACCTAACGGAGTTCTGACCATACATCACACCTAACAGGTACTCAA
 1390 1400 1410 1420 1430 1440
 ATACACATGGCACACAGAGCTGATACTCCTGCGTATTTGTTAGTAAATTCAATTAC
 TATGTGTACCGTGTCTCGACTATGAGGACCCATAAAACATAACAAATTAAAGTAAATG
 1450 1460 1470 1480 1490 1500
 TTTGGATTAGTGTCTTGCTAGATGTCAAGAAGCCCTCAGACCCAGACAAATCTAATAT
 AACCTAATCACGAAACGATCTACAGTCTCGGGAAAGTCTGGGTCTGTTAGATTATA
 1510 1520 1530 1540 1550 1560
 CCTGAGGTGGCTTACATACGTAGGACCAACCCCTCTACCATGAGGGAGAACAC
 GGACTCCACCGGAAATGTATGCATCCTGGTTGGGAGAGATGGTACTCCCTCTGTG
 1570 1580 1590 1600 1610 1620
 AGCAAATGACAGACAGCACCTATTCTTACTCACAAGGGAAACTGCTGTGATACTTCC
 TCGTTACTGTCTCGTGGATAAGGAATGAGTGTCCCTTGACGAACACTATGAAGGA
 1630 1640 1650 1660 1670 1680
 AATAAGATAATAAGTGGTTCCCTCAATTGAAGACAGGAACATCATTTCACAGGATA
 TTATTCTATTATTACCAAAGGGAGTTAACCTCTGTCTTGAGTAAAGGTGCTTAT
 1690 1700 1710 1720 1730 1740
 TGAAGAGCTGCCAGTAATGCCAAATCTTACCTCATATAAACCTGGAGCATGTGAGATT
 ACTTCTCGACGGTCATTACGGTTAGAATGGAGTATATATGGACCTCGTACACTCTAA
 1750 1760 1770 1780 1790 1800
 CTTCTAGTGAAAAGAACAGTCTCCCTGAAGACTCAGGGCTTCAACATTCTAGAAC
 GAAGATCACTTTTCTGTCAAGAGGACTTCTGAGTCCCGAAGTTGTAAGATTTGACT
 1810 1820 1830 1840 1850 1860
 TAAGTGGACCTTCAGTGTGCAAGAATGGAGAAGCATGGGATTGCATTATGACTTGA
 ATTACACCTGGAAGTCACACGTTCTACCTCTCGTACCCCTAAACGTAATACTGA
 1870 1880 1890 1900 1910 1920
 GGGCTTATATCTAATAATACAGAGCACTATCACTAACCTCAACAGTTGACATTAAAG
 CCCGAATATAGATTATTATGTCTCGTAGTAGTGATTGGAGTTGTCACGTAAATTTTC

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1930 1940 1950 1960 1970 1980
TTTTAAATGTATCTGAACCTGCTGTTAACACAGTGTTAACTCAAGCACTAGCTTCAG
AAAAATTACATAGACTTGAACGACAATTGTGTCACAATATTGAGTTCGTGATCGAAGTC

1990 2000 2010 2020 2030 2040
GAAGCATGTTGTGTTAACAGCTTTCTGATTTATTCTTAACAGCATCTGCCATC
CTTCGTACAACACAACATTCTCGAAAAGACTAAATAAGAAATTGTCGTAGAACGGTAG

2050 2060 2070 2080 2090 2100
TATATGTTAGTAGCAGTTGGCCCAGAAAGGACAAAAAAAAAAAAAAAAAAAAAAA
ATATACAATCATCGTCAACGGGTCTTCTGTTTTTTTTTTTTTTTTTTTTTT